

Flight-Testing Newton's Laws			
1997 Mathematics			
Content Standards			
California Mathematics			
Grades 8-12 (Algebra I)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	CA	MA.8-12.AI.15.0	Students apply algebraic techniques to solve rate problems, work problems, and percent mixture problems.
Session-10 (1-5)	CA	MA.8-12.AI.23.0	Students apply quadratic equations to physical problems, such as the motion of an object under the force of gravity.
Session-10 (1-5)	CA	MA.8-12.AI.25.3	Given a specific algebraic statement involving linear, quadratic, or absolute value expressions or equations or inequalities, students determine whether the statement is true sometimes, always, or never.
Flight-Testing Newton's Laws			
1997 Mathematics			
Content Standards			
California Mathematics			
Grades 8-12 (Mathematical Analysis)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	CA	MA.8-12.MA.3.0	Students can give proofs of various formulas by using the technique of mathematical induction.
Session-1 (1-17)	CA	MA.8-12.MA.3.0	Students can give proofs of various formulas by using the technique of mathematical induction.
Flight-Testing Newton's Laws			
1997 Mathematics			
Content Standards			
California Mathematics			
Grades 8-12 (Calculus)			
Activity/Lesson	State	Standards	
Session-8 (1-9)	CA	MA.8-12.C.4.1	Students demonstrate an understanding of the derivative of a function as the slope of the tangent line to the graph of the function.
Session-8 (1-9)	CA	MA.8-12.C.4.2	Students demonstrate an understanding of the interpretation of the derivative as an instantaneous rate of change. Students can use derivatives to solve a variety of problems from physics, chemistry, economics, and so forth that involve the rate of change of a function.
Session-8 (1-9)	CA	MA.8-12.C.4.4	Students derive derivative formulas and use them to find the derivatives of algebraic, trigonometric, inverse trigonometric, exponential, and logarithmic functions.